

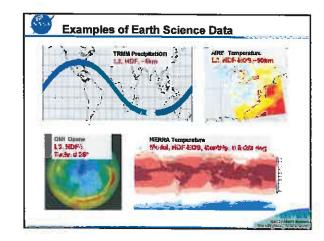
Data Recipes

Toward Creating How-To Knowledge Base for Earth Science Data

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Why Create Data Recipes?

Earth Science data sets are complicated

- * Data type and structure : swath, grid, point, vector, tiled, ...
- Map projection : Equidistant, Sinusoidal, ...
- Resolution : hourly, daily, monthly, ...; m, km, deg, ...
- Data formats: HDF, HDF-EOS, netCDF, GRIB, GeoTIFF,...
- Metadata models: ECHO, GCMD, HDFEOS, COARDS, netCDF-CF convention.
- ٠...

Solution: Developed data services and tools

- 70+ data services or tools at EOSDIS DAACs all services or tools have user guides
- online FAQ for data access and usage



Why Create Data Recipes?

But, still many questions, e.g.:

- ➤How to download data in a specific format (netCDF, ASCII, ...)?
- >How to download time series to a single file in netCDF?
- >How to read data with a data tool (ArcGIS, GrADS, R, ...)?
- >You have a number of data services; which one is best for doing my work?
- *.*..

Solution: Data Recipes could be helpful!

They help distribute key expertise from those who have it to those who need it



Characteristics of Data Recipes

- >Task- oriented -- solve a specific problem
- > Detailed -- provide step-by-step instruction with screenshots
- > Real data work with real data archived at data centers
- Online reduce supporting resources for data centers and save time for data users





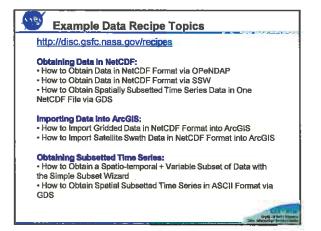
Data Recipe Structure at GES DISC

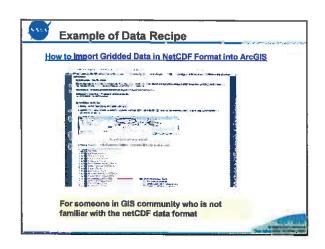
A data recipe is a task-oriented, common-structured, online How-To page, containing the following eight sections:

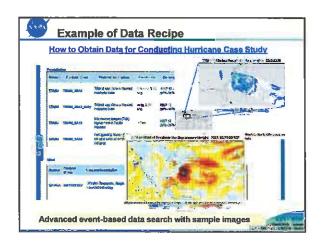
- ✓ Overview summary of the recipe
- ✓ Best When conditions for which the recipe is applicable
- ✓ Task group name to which the recipe topic belongs (obtaining data, reading/viewing data, format conversion, etc.)
- ✓ Example description of a use scenario for the racipe
- ✓ Tool or Service name of the tool or service to which the recipe applies
- ✓ Procedure step-by-stup instruction with screaments.
- \checkmark Discussion additional information about using the service or tool
- ✓ See Also related recipes

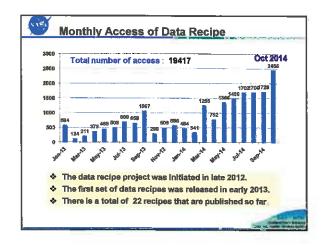
Each recipe is carefully tested by scientists other than the author

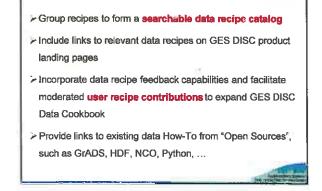












Future Plans at GES DISC

